

***Amended 9 February 2005**

**HUMAN RESOURCES OFFICE
CALIFORNIA NATIONAL GUARD
P.O. BOX 269101
SACRAMENTO, CA 95826-9101**

AIR TECHNICIAN VACANCY ANNOUNCEMENT #04-234A

**Environmental Engineer
50129000 FC: 115000
GS-0819-11
\$54,821 - \$71,265 pa**

ANNOUNCEMENT DATE:

15 December 2004

***CLOSING DATE:**

23 February 2005

SELECTING OFFICIAL:

Director of Personnel

APPOINTMENT FEATURES:

**Excepted Service
Officer Grade**

POSITION LOCATION:

129th Rescue Wing – Moffett Federal Airfield, CA

CONCURRENT CONSIDERATION WILL BE GIVEN IN THE ANNOUNCEMENT OF THIS POSITION AND VACANCY ANNOUNCEMENT #04-233A. ONLY ONE OF THE ANNOUNCED POSITIONS WILL BE FILLED. REFERRAL AND SELECTION WILL BE IAW TPM, ANNEX A.

This position serves as the environmental engineer for an Air National Guard installation. This position is located in the Base Environmental Management Office as the environmental program manager at all ANG units with flying missions, Civil Engineering Red Horse Units, Combat Readiness Training Centers, and Geographically Separated Units with statewide geographical responsibilities.

1. **AREA OF CONSIDERATION:** Statewide. All applications will be accepted; however, first consideration will be given to current permanent technicians of the California Air National Guard.

2. **CONDITIONS OF EMPLOYMENT:** a. Must qualify for appropriate level of security clearance required by the position. b. Must wear appropriate military uniform including required grooming standards. c. Must maintain a compatible military unit, grade, and job assignment as required by current directives. d. Must participate in PD/EFT (Direct Deposit).

3. **MILITARY GRADE AVAILABLE:** OFFICER GRADE THROUGH 0-4. PRIOR TO EFFECTIVE DATE OF PERSONNEL ACTION, SELECTEE MUST OCCUPY A COMPATIBLE MILITARY POSITION WITHIN A COMPATIBLE UNIT IN OFFICER GRADE THROUGH 0-4 OR HAVE A COMPATIBILITY WAIVER APPROVED BY NATIONAL GUARD BUREAU. GRADE INVERSION IS NOT ALLOWED. IF THIS IS A SUPERVISORY

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POSITION, THE MILITARY GRADE OF SELECTEE MUST BE EQUAL TO OR HIGHER THAN THE MILITARY GRADE OF THOSE TO BE SUPERVISED.

NOTICE: All National Guard applicants must state Unit of Military Assignment, Military grade and MOS/AFSC.

4. QUALIFICATION REQUIREMENTS:

Basic Requirements for Environmental Engineer, GS-0819-11/-09:

A. **Degree:** Professional engineering. To be acceptable, the curriculum must: **(1)** be in a school of engineering with at least one curriculum accredited by the Accreditation Board for Engineering and Technology (ABET) as a professional engineering curriculum; or **(2)** include differential and integral calculus and courses (more advanced than first-year physics and chemistry) in five of the following seven areas of engineering science or physics: (a) statics, dynamics; (b) strength of materials (stress-strain relationships); (c) fluid mechanics, hydraulics; (d) thermodynamics; (e) electrical fields and circuits; (f) nature and properties of materials (relating particle and aggregate structure to properties); and (g) any other comparable area of fundamental engineering science or physics, such as optics, heat transfer, soil mechanics, or electronics.

OR

B. Combination of education and experience – college level education, training, and/or technical experience that furnished **(1)** a thorough knowledge of the physical and mathematical sciences underlying professional engineering, and **(2)** a good understanding, both theoretical and practical, of the engineering sciences and techniques and their applications to one of the branches of engineering. The adequacy of such background must be demonstrated by one of the following:

1. **Professional Registration:** Current registration as a professional engineer by any State, the District of Columbia, Guam, or Puerto Rico. Absent other means of qualifying under this standard, those applicants who achieved such registration by means other than written test (e.g., State grandfather or eminence provisions) are eligible only for positions that are within or closely related to the specialty field of their registration. For example, an applicant who attains registration through a State Board's eminence provision as a manufacturing engineer typically would be rated eligible only for manufacturing engineering positions.

2. **Written Test:** Evidence of having successfully passed the Engineer-in-Training (EIT) examination, or the written test required for professional registration, which is administered by the Boards of Engineering Examiners in the various States, the District of Columbia, Guam, and Puerto Rico.

Applicants who have passed the EIT examination and have completed all the requirements for either (a) a bachelor's degree in engineering technology (BET) from an accredited college or university that included 60 semester hours of courses in the physical, mathematical, and engineering sciences, or (b) a BET from a program accredited by the Accreditation Board for

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Engineering and Technology (ABET) may be rated eligible for certain engineering positions at GS-05. Eligibility is limited to positions that are within or closely related to the specialty field of the engineering technology program. Applicants for positions that involve highly technical research, development, or similar functions requiring an advanced level of competence in basic science must meet the basic requirements in paragraph A.

Because of the diversity in kind and quality of BET programs, graduates of other BET programs are required to complete at least 1 year of additional education or highly technical work experience of such nature as to provide reasonable assurance of the possession of the knowledge, skills, and abilities required to professional engineering competence. The adequacy of this background must be demonstrated by passing the EIT examination.

3. **Specified Academic Courses:** Successful completion of at least 60 semester hours of courses in the physical, mathematical, and engineering sciences and in engineering that included the courses specified in the basic requirements. The courses must be fully acceptable toward meeting the requirements of a professional engineering curriculum as described in paragraph A.

4. **Related Curriculum:** Successful completion of a curriculum leading to a bachelor's degree in engineering technology or in an appropriate professional field, e.g., physics, chemistry, architecture, computer science, mathematics, hydrology, or geology, may be accepted in lieu of a degree in engineering, provided the applicant has had at least 1 year of professional engineering experience acquired under professional engineering supervision and guidance. Ordinarily, there should be either an established plan of intensive training to develop professional engineering competence, or several years of prior professional engineering-type experience, e.g., in interdisciplinary positions. (The above examples of related curricula are not all-inclusive.)

TO BE CREDITABLE, XEROX COPIES OF COLLEGE TRANSCRIPTS ARE REQUIRED

Additional Experience and Education requirements:

GS-11: 3 full years of progressively higher level graduate education or Ph.D. or equivalent doctoral degree or 1 year equivalent to at least GS-09.

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C. **Specialized Experience:** The professional engineering experience required for grades GS-07 and above is defined as nonroutine engineering work that required and was characterized by (1) professional knowledge of engineering; (2) professional ability to apply such knowledge to engineering problems, and (3) positive and continuing development of professional knowledge and ability.

Professional knowledge of engineering is defined as the comprehensive, indepth knowledge of mathematical, physical and engineering sciences applicable to a specialty field of engineering that characterizes a full 4 year professional engineering curriculum leading to a bachelor's degree, or the equivalent.

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Professional ability to apply engineering knowledge is defined as the ability to (a) apply fundamental and diversified professional engineering concepts, theories, and practices to achieve engineering objectives with versatility, judgment, and perception; (b) adapt and apply methods and techniques of related scientific disciplines; and (c) organize, analyze, interpret, and evaluate scientific data in the solution of engineering problems.

Professional work in engineering, like that in other professions, is marked by continuing personal effort to keep abreast of the advancing and changing discipline. Continuing education in engineering and related fields is an important element of full professional competence as an engineer that should be considered in evaluating the qualifications of applicants for professional engineering positions.

In some situations, experience may be creditable even if it is not clearly professional engineering work. In such cases, the experience must have been preceded by prior responsible professional engineering experience and must contribute directly and significantly to the applicant's engineering competence. For example, an engineer might be assigned to a management-type position in preparation for assumption of higher-level responsibilities in engineering project or program management.

SELECTEE WILL BE REQUIRED TO BE ASSIGNED IN A COMPATIBLE MILITARY POSITION IN ANY AFSC.

MALE SELECTEES BORN AFTER 31 DECEMBER 1959 WILL BE REQUIRED TO SIGN A PRE-APPOINTMENT CERTIFICATION STATEMENT FOR SELECTIVE SERVICE.

INSTRUCTIONS FOR APPLYING: INDIVIDUALS MAY APPLY BY SUBMITTING AN OPTIONAL FORM (OF) 612, OPTIONAL APPLICATION FOR FEDERAL EMPLOYMENT; A STANDARD FORM (SF) 171, APPLICATION FOR EMPLOYMENT; A RESUME OR ANY OTHER WRITTEN FORMAT. IF YOUR APPLICATION OR RESUME DOES NOT INCLUDE ALL THE ITEMS REQUESTED ON THE OF-612 AND THIS VACANCY ANNOUNCEMENT, ALONG WITH A NARRATIVE DESCRIPTION OF HOW YOU MEET THE GENERAL AND SPECIALIZED EXPERIENCE REQUIREMENTS, YOU MAY LOSE CONSIDERATION FOR THE POSITION. IF YOU DESCRIBE MORE THAN ONE TYPE OF WORK (FOR EXAMPLE, CARPENTRY AND PAINTING, OR PERSONNEL AND BUDGET), WRITE THE APPROXIMATE PERCENTAGE OF TIME YOU SPENT DOING EACH. THE ABOVE FORMS ARE AVAILABLE AT THIS OFFICE AND ANY FEDERAL AGENCY.

SUBMIT APPLICATIONS TO: THE HUMAN RESOURCES OFFICE (HRO), P.O. BOX 269101, SACRAMENTO, CA 95826-9101 (OR FOR EXPRESS MAIL: 9800 GOETHE ROAD, SACRAMENTO, CA 95826-9101). *ALL APPLICATIONS MUST BE RECEIVED IN THE HUMAN RESOURCES OFFICE (HRO) BY CLOSE OF BUSINESS ON THE CLOSING DATE INDICATED ABOVE.* VETERANS PREFERENCE DOES NOT APPLY.

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ALL APPLICATIONS MUST BE SIGNED & DATED

THE FOLLOWING DOCUMENTS ARE NOT ACCEPTABLE AS ATTACHMENTS TO APPLICATIONS: PHOTOGRAPHS, COPIES OF POSITION DESCRIPTIONS, TRAINING CERTIFICATES, PERFORMANCE RATINGS (CIVILIAN OR MILITARY), AWARDS OR LETTERS OF APPRECIATION.

FEDERAL LAW PROHIBITS THE USE OF GOVERNMENT ENVELOPES, POSTAGE, OR FACSIMILE (FAX) FOR SUBMISSION OF APPLICATIONS.

PERMANENT CHANGE OF STATION (PCS) EXPENSES MAY NOT BE AUTHORIZED FOR THIS POSITION. AUTHORIZATION FOR PAYMENT OF PCS EXPENSES WILL BE GRANTED ONLY AFTER DETERMINATION IS MADE THAT PAYMENT IS IN THE BEST INTEREST OF THE CALIFORNIA NATIONAL GUARD.

THE CALIFORNIA NATIONAL GUARD IS AN EQUAL OPPORTUNITY EMPLOYER